

REMARKS

Reconsideration of the above-identified Application is respectfully requested. Claims 1-21 are in the case. Claims 1-3, 8-10 and 15-17 have been amended.

Regarding the rejection of Claims 1-21 under 35 U.S.C. § 102(a) as allegedly being anticipated by Cherubal et al. ('741), Claims 1-3, 8-10 and 15-17 have been amended to overcome the rejection. These amendments have been made with careful attention to the Examiner's comments in the above-identified Office Action concerning allegedly non-limiting aspects of the claims as previously set forth. Independent Claims 1, 8 and 15 have had similar amendments made thereto, and it is respectfully submitted that these amendments patentably distinguish these claims from Cherubal et al. ('741). For example, this reference fails to teach or suggest a transition locator configured to apply a mathematical function to determine transition locations for said code sequences based on said stages and the number of bits in respective ones of said stages of said pipeline ADC, but rather teaches a linear model for an ADC that is constructed from measured data and average input-referred noise of a training set of ADCs. The other art of record is even less relevant. Accordingly, it is respectfully submitted that for the above reasons Claims 1, 8 and 15 are allowable over Cherubal et al. ('741) and, indeed, all of the art of record whether considered individually or in any combination. Claims 4-7, 11-14 and 18-21 all depend, directly or indirectly, from one of Claims 1, 8 and 15, and so are allowable as well for the same reasons, as well as for the additional limitations found therein.

Regarding the rejection of Claims 1-21 under 35 U.S.C. § 102(b) as allegedly being anticipated by Cherubal et al. ('615), Claims 1-3, 8-10 and 15-17 have been amended to overcome the rejection. These amendments have been made with careful attention to the Examiner's comments in the above-identified Office Action concerning allegedly non-limiting aspects of the claims as

previously set forth. Independent Claims 1, 8 and 15 have had similar amendments made thereto, and it is respectfully submitted that these amendments patentably distinguish these claims from Cherubal et al. ('741). For example, this reference fails to teach or suggest a transition locator configured to apply a mathematical function to determine transition locations for said code sequences based on said stages and the number of bits in respective ones of said stages of said pipeline ADC, but rather teaches a linear model for an ADC that is constructed from measured data and average input-referred noise of a training set of ADCs. The other art of record is even less relevant. Accordingly, it is respectfully submitted that for the above reasons Claims 1, 8 and 15 are allowable over Cherubal et al. ('741) and, indeed, all of the art of record whether considered individually or in any combination. Claims 4-7, 11-14 and 18-21 all depend, directly or indirectly, from one of Claims 1, 8 and 15, and so are allowable as well for the same reasons, as well as for the additional limitations found therein.

It is respectfully submitted that the claims recite the patentably distinguishing features of the invention and that, taken together with the above remarks, the present application is now in proper form for allowance. Reconsideration of the application, as amended, and allowance of the claims are requested at an early date.

While it is believed that the instant amendment places the application in condition for allowance, should the Examiner have any further comments or suggestions, it is respectfully requested that the Examiner contact the undersigned in order to expeditiously resolve any outstanding issues.

To the extent necessary, the Applicants petition for an Extension of Time under 37 C.F.R. §1.136. Please charge any fees in connection with the filing of this paper, including extension of time fees to the Deposit Account No. 20-0668

of Texas Instruments Incorporated.

Respectfully submitted,

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